

National Aeronautics and  
Space Administration  
Lyndon B. Johnson Space Center  
**White Sands Test Facility**  
P.O. Box 20  
Las Cruces, NM 88004-0020



February 28, 2011

Reply to Attn of: RA-E11-024

State Emergency Response Commission  
Attn: Mr. Ronald Breland  
Department of Homeland Security and Emergency Management  
P.O. Box 27111  
Santa Fe, NM 87502

Subject: NASA White Sands Test Facility (WSTF)  
SARA Title III Emergency and Hazardous Chemical Inventory  
Tier II Report for Calendar Year 2010

Enclosure 1 contains a paper copy of the completed Tier II Emergency and Hazardous Chemical Inventory Report form for calendar year 2010, in accordance with SARA Title III. Enclosure 2 contains a duplicate CD-ROM copy of the report form in PDF format.

If you have any questions or comments concerning this submittal, please contact me at 575-524-5733.

A handwritten signature in black ink, appearing to read "Radel Bunker-Farrah".

Radel Bunker-Farrah  
Environmental Program Manager

2 Enclosures

cc (paper copy only):

David Almaguer  
Emergency Management Supervisor  
1170 North Solano, Suite O  
Las Cruces, NM 88001

Ms. Dolores Estrada, Office Assistant  
Emergency Planning Coordinator  
Las Cruces Fire Department  
P.O. Box 20000  
Las Cruces, NM 88001

Facility Name: NASA White Sands Test Facility

FACILITY IDENTIFICATION:

NASA White Sands Test Facility  
Dept:  
12600 NASA Road  
Las Cruces, NM 88012 USA  
County: Dona Ana  
Number of employees: 650  
MAILING ADDRESS: PO Box 20  
Las Cruces, NM 88004 USA

IDENTIFICATION NUMBERS:

Dun & Bradstreet:  
NAICS: 92711 (Space Research and Technology)  
SIC: 9661 (SPACE RESEARCH AND TECHNOLOGY)

CONTACT INFORMATION:

WSTF Fire Department,  
Contact Type 1: Emergency Contact  
Address: 12600 NASA Road, Las Cruces, NM, 88012 USA  
Phones: 24-hour: 575-524-5911

NASA White Sands Test Facility,  
Contact Type 1: Owner / Operator  
Address: PO Box 20, Las Cruces, NM, 88004 USA  
Phones: Work: 575-524-5733  
Email: radel.l.bunker-farah@nasa.gov

CHEMICAL DESCRIPTIONS:

All chemicals in inventory are identical to last year's submission

CHEM NAME: 1,1-DIMETHYL HYDRAZINE

CAS: 57-14-7

Identical to previous year

TRADE SECRET

Pure  Mix  Solid  Liquid  Gas  EHS

PHYSICAL & HEALTH HAZARDS:

Fire  Sudden Release of Pressure  Reactivity  Immediate (acute)  Delayed (chronic)

INVENTORY:

Max Daily Amt code: 03 (1,000 - 9,999 pounds)

Avg Daily Amt code: 03 (1,000 - 9,999 pounds)

No. of days on-site: 365

STORAGE CODES & STORAGE LOCATIONS:

Container Type: M Pressure: 1 Temp: 4 Location: 200 Area Amount: pounds

Container Type: D Pressure: 1 Temp: 4 Location: 500 Area Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

Facility Name: NASA White Sands Test Facility

CHEM NAME: 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE

CAS: 76-13-1

Identical to previous year

TRADE SECRET

Pure  Mix  Solid  Liquid  Gas  EHS

PHYSICAL & HEALTH HAZARDS:

Fire  Sudden Release of Pressure  Reactivity  Immediate (acute)  Delayed (chronic)

INVENTORY:

Max Daily Amt code: 03 (1,000 - 9,999 pounds)

Avg Daily Amt code: 03 (1,000 - 9,999 pounds)

No. of days on-site: 365

STORAGE CODES & STORAGE LOCATIONS:

Container Type: D Pressure: 1 Temp: 4 Location: 100 Area Amount: pounds

Container Type: D Pressure: 1 Temp: 4 Location: 200 Area Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: CHLORINE

CAS: 7782-50-5

Identical to previous year

TRADE SECRET

Pure  Mix  Solid  Liquid  Gas  EHS

PHYSICAL & HEALTH HAZARDS:

Fire  Sudden Release of Pressure  Reactivity  Immediate (acute)  Delayed (chronic)

INVENTORY:

Max Daily Amt code: 02 (100 - 999 pounds)

Avg Daily Amt code: 02 (100 - 999 pounds)

No. of days on-site: 365

STORAGE CODES & STORAGE LOCATIONS:

Container Type: L Pressure: 2 Temp: 4 Location: 100 Area Amount: pounds

Container Type: L Pressure: 2 Temp: 4 Location: 600 Area Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: DIESEL FUEL

CAS: 68476-34-6

Identical to previous year

TRADE SECRET

Pure  Mix  Solid  Liquid  Gas  EHS

PHYSICAL & HEALTH HAZARDS:

Fire  Sudden Release of Pressure  Reactivity  Immediate (acute)  Delayed (chronic)

INVENTORY:

Max Daily Amt code: 04 (10,000 - 99,999 pounds)

Avg Daily Amt code: 04 (10,000 - 99,999 pounds)

No. of days on-site: 365

STORAGE CODES & STORAGE LOCATIONS:

Container Type: A Pressure: 1 Temp: 4 Location: 100 Area Amount: pounds

Container Type: A Pressure: 1 Temp: 4 Location: 300 Area Amount: pounds

Facility Name: NASA White Sands Test Facility

Container Type: A Pressure: 1 Temp: 4 Location: 400 Area Amount: pounds  
CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: ETHANOL

CAS: 64-17-5

Identical to previous year

TRADE SECRET

Pure  Mix  Solid  Liquid  Gas  EHS

PHYSICAL & HEALTH HAZARDS:

Fire  Sudden Release of Pressure  Reactivity  Immediate (acute)  Delayed (chronic)

INVENTORY:

Max Daily Amt code: 04 (10,000 - 99,999 pounds)

Avg Daily Amt code: 04 (10,000 - 99,999 pounds)

No. of days on-site: 365

STORAGE CODES & STORAGE LOCATIONS:

Container Type: B Pressure: 1 Temp: 4 Location: 100 Area Amount: pounds

Container Type: A Pressure: 1 Temp: 4 Location: 400 Area Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: GASOLINE

CAS: 8006-61-9

Identical to previous year

TRADE SECRET

Pure  Mix  Solid  Liquid  Gas  EHS

PHYSICAL & HEALTH HAZARDS:

Fire  Sudden Release of Pressure  Reactivity  Immediate (acute)  Delayed (chronic)

INVENTORY:

Max Daily Amt code: 04 (10,000 - 99,999 pounds)

Avg Daily Amt code: 04 (10,000 - 99,999 pounds)

No. of days on-site: 365

STORAGE CODES & STORAGE LOCATIONS:

Container Type: B Pressure: 1 Temp: 4 Location: 100 Area Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: HYDRAZINE

CAS: 302-01-2

Identical to previous year

TRADE SECRET

Pure  Mix  Solid  Liquid  Gas  EHS

PHYSICAL & HEALTH HAZARDS:

Fire  Sudden Release of Pressure  Reactivity  Immediate (acute)  Delayed (chronic)

INVENTORY:

Max Daily Amt code: 04 (10,000 - 99,999 pounds)

Avg Daily Amt code: 04 (10,000 - 99,999 pounds)

No. of days on-site: 365

STORAGE CODES & STORAGE LOCATIONS:

## Emergency and Hazardous Chemical Inventory

## Specific Information by Chemical

Printed: February 24, 2011

Facility Name: NASA White Sands Test Facility

Container Type: L	Pressure: 2	Temp: 4	Location: 200 Area	Amount: pounds
Container Type: A	Pressure: 1	Temp: 4	Location: 300 Area	Amount: pounds
Container Type: L	Pressure: 1	Temp: 4	Location: 500 Area	Amount: pounds
Container Type: A	Pressure: 1	Temp: 4	Location: 800 Area	Amount: pounds

## CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: HYDROGEN (LIQUEFIED)

CAS: 1333-74-0

 Identical to previous year TRADE SECRET Pure  Mix  Solid  Liquid  Gas  EHS

## PHYSICAL &amp; HEALTH HAZARDS:

 Fire  Sudden Release of Pressure  Reactivity  Immediate (acute)  Delayed (chronic)

## INVENTORY:

Max Daily Amt code: 03 (1,000 - 9,999 pounds)

Avg Daily Amt code: 03 (1,000 - 9,999 pounds)

No. of days on-site: 365

## STORAGE CODES &amp; STORAGE LOCATIONS:

Container Type: A Pressure: 2 Temp: 7 Location: 200 Area Amount: pounds

## CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: HYDROGEN, GAS

CAS: 1333-74-0

 Identical to previous year TRADE SECRET Pure  Mix  Solid  Liquid  Gas  EHS

## PHYSICAL &amp; HEALTH HAZARDS:

 Fire  Sudden Release of Pressure  Reactivity  Immediate (acute)  Delayed (chronic)

## INVENTORY:

Max Daily Amt code: 04 (10,000 - 99,999 pounds)

Avg Daily Amt code: 03 (1,000 - 9,999 pounds)

No. of days on-site: 365

## STORAGE CODES &amp; STORAGE LOCATIONS:

Container Type: L Pressure: 2 Temp: 4 Location: 100 Area Amount: pounds

Container Type: L Pressure: 2 Temp: 4 Location: 200 Area Amount: pounds

Container Type: A Pressure: 2 Temp: 4 Location: 200 Area Amount: pounds

## CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: ISO-PROPYL ALCOHOL

CAS: 67-63-0

 Identical to previous year TRADE SECRET Pure  Mix  Solid  Liquid  Gas  EHS

## PHYSICAL &amp; HEALTH HAZARDS:

 Fire  Sudden Release of Pressure  Reactivity  Immediate (acute)  Delayed (chronic)

## INVENTORY:

Facility Name: NASA White Sands Test Facility

Max Daily Amt code: 05 (100,000 - 999,999 pounds)

Avg Daily Amt code: 05 (100,000 - 999,999 pounds)

No. of days on-site: 365

## STORAGE CODES &amp; STORAGE LOCATIONS:

Container Type: D Pressure: 1 Temp: 4 Location: 100 Area Amount: pounds

Container Type: D Pressure: 1 Temp: 4 Location: 200 Area Amount: pounds

Container Type: A Pressure: 1 Temp: 4 Location: 400 Area Amount: pounds

Container Type: D Pressure: 1 Temp: 4 Location: 500 Area Amount: pounds

## CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: LIQUID OXYGEN

CAS: 7782-44-7

 Identical to previous year TRADE SECRET Pure  Mix  Solid  Liquid  Gas  EHS

## PHYSICAL &amp; HEALTH HAZARDS:

 Fire  Sudden Release of Pressure  Reactivity  Immediate (acute)  Delayed (chronic)

## INVENTORY:

Max Daily Amt code: 05 (100,000 - 999,999 pounds)

Avg Daily Amt code: 05 (100,000 - 999,999 pounds)

No. of days on-site: 365

## STORAGE CODES &amp; STORAGE LOCATIONS:

Container Type: A Pressure: 2 Temp: 7 Location: 200 Area Amount: pounds

Container Type: A Pressure: 2 Temp: 7 Location: 400 Area Amount: pounds

Container Type: A Pressure: 2 Temp: 7 Location: 800 Area Amount: pounds

## CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: MONOMETHYLHYDRAZINE

CAS: 60-34-4

 Identical to previous year TRADE SECRET Pure  Mix  Solid  Liquid  Gas  EHS

## PHYSICAL &amp; HEALTH HAZARDS:

 Fire  Sudden Release of Pressure  Reactivity  Immediate (acute)  Delayed (chronic)

## INVENTORY:

Max Daily Amt code: 04 (10,000 - 99,999 pounds)

Avg Daily Amt code: 04 (10,000 - 99,999 pounds)

No. of days on-site: 365

## STORAGE CODES &amp; STORAGE LOCATIONS:

Container Type: L Pressure: 2 Temp: 4 Location: 200 Area Amount: pounds

Container Type: A Pressure: 2 Temp: 4 Location: 300 Area Amount: pounds

Container Type: A Pressure: 2 Temp: 4 Location: 400 Area Amount: pounds

Container Type: D Pressure: 2 Temp: 4 Location: 500 Area Amount: pounds

## CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: NITROGEN (LIQUEFIED)

Facility Name: NASA White Sands Test Facility

CAS: 7727-37-9

Identical to previous year

TRADE SECRET

Pure  Mix  Solid  Liquid  Gas  EHS

PHYSICAL & HEALTH HAZARDS:

Fire  Sudden Release of Pressure  Reactivity  Immediate (acute)  Delayed (chronic)

INVENTORY:

Max Daily Amt code: 05 (100,000 - 999,999 pounds)

Avg Daily Amt code: 05 (100,000 - 999,999 pounds)

No. of days on-site: 365

STORAGE CODES & STORAGE LOCATIONS:

Container Type: A Pressure: 2 Temp: 7 Location: 200 Area Amount: pounds

Container Type: A Pressure: 2 Temp: 7 Location: 400 Area Amount: pounds

Container Type: A Pressure: 2 Temp: 7 Location: 500 Area Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: NITROGEN GAS

CAS: 7727-37-9

Identical to previous year

TRADE SECRET

Pure  Mix  Solid  Liquid  Gas  EHS

PHYSICAL & HEALTH HAZARDS:

Fire  Sudden Release of Pressure  Reactivity  Immediate (acute)  Delayed (chronic)

INVENTORY:

Max Daily Amt code: 04 (10,000 - 99,999 pounds)

Avg Daily Amt code: 04 (10,000 - 99,999 pounds)

No. of days on-site: 365

STORAGE CODES & STORAGE LOCATIONS:

Container Type: L Pressure: 2 Temp: 4 Location: 100 Area Amount: pounds

Container Type: A Pressure: 2 Temp: 4 Location: 200 Area Amount: pounds

Container Type: A Pressure: 2 Temp: 4 Location: 400 Area Amount: pounds

Container Type: A Pressure: 2 Temp: 4 Location: 500 Area Amount: pounds

Container Type: R Pressure: 2 Temp: 4 Location: Site Wide Piping Amount: pounds

Container Type: L Pressure: 2 Temp: 4 Location: 600 Area Amount: pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: NITROGEN TETROXIDE (N2O4)

CAS: 10102-44-0

Identical to previous year

TRADE SECRET

Pure  Mix  Solid  Liquid  Gas  EHS

PHYSICAL & HEALTH HAZARDS:

Fire  Sudden Release of Pressure  Reactivity  Immediate (acute)  Delayed (chronic)

INVENTORY:

Max Daily Amt code: 04 (10,000 - 99,999 pounds)

Avg Daily Amt code: 04 (10,000 - 99,999 pounds)

No. of days on-site: 365

STORAGE CODES & STORAGE LOCATIONS:

## Emergency and Hazardous Chemical Inventory

## Specific Information by Chemical

Printed: February 24, 2011

Facility Name: NASA White Sands Test Facility

Container Type: L	Pressure: 2	Temp: 4	Location: 200 Area	Amount: pounds
Container Type: A	Pressure: 2	Temp: 4	Location: 300 Area	Amount: pounds
Container Type: A	Pressure: 2	Temp: 4	Location: 400 Area	Amount: pounds
Container Type: L	Pressure: 2	Temp: 4	Location: 500 Area	Amount: pounds

## CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: OXYGEN

CAS: 7782-44-7

 Identical to previous year TRADE SECRET Pure  Mix  Solid  Liquid  Gas  EHS

## PHYSICAL &amp; HEALTH HAZARDS:

 Fire  Sudden Release of Pressure  Reactivity  Immediate (acute)  Delayed (chronic)

## INVENTORY:

Max Daily Amt code: 04 (10,000 - 99,999 pounds)

Avg Daily Amt code: 04 (10,000 - 99,999 pounds)

No. of days on-site: 365

## STORAGE CODES &amp; STORAGE LOCATIONS:

Container Type: L Pressure: 2 Temp: 4 Location: 100 Area Amount: pounds

Container Type: A Pressure: 2 Temp: 4 Location: 200 Area Amount: pounds

## CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

CHEM NAME: PROPANE

CAS: 74-98-6

 Identical to previous year TRADE SECRET Pure  Mix  Solid  Liquid  Gas  EHS

## PHYSICAL &amp; HEALTH HAZARDS:

 Fire  Sudden Release of Pressure  Reactivity  Immediate (acute)  Delayed (chronic)

## INVENTORY:

Max Daily Amt code: 04 (10,000 - 99,999 pounds)

Avg Daily Amt code: 04 (10,000 - 99,999 pounds)

No. of days on-site: 365

## STORAGE CODES &amp; STORAGE LOCATIONS:

Container Type: L Pressure: 2 Temp: 4 Location: 300 Area Amount: pounds

Container Type: L Pressure: 2 Temp: 4 Location: 400 Area Amount: pounds

Container Type: L Pressure: 2 Temp: 4 Location: 600 Area Amount: pounds

Container Type: L Pressure: 2 Temp: 4 Location: 800 Area Amount: pounds

## CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by New Mexico

## FACILITY STATE FIELDS:

No additional information is required by New Mexico

STATE / LOCAL FEES: None.

 I have attached a site plan

Tier Two

Reporting Period: January 1 to December 31, 2010

Emergency and Hazardous Chemical Inventory

Page 8

*Specific Information by Chemical*

Printed: February 24, 2011

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Facility Name: NASA White Sands Test Facility

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I have attached a list of site coordinate abbreviations

I have attached a description of dikes and other safeguard measures

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**Certification (Read and sign after completing all sections)**

I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 8, and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.

Environmental Program Manager

Name and official title of owner/operator  
OR owner/operator's authorized representative

  
Signature

02-25-2011

Date signed

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UNITED STATES POSTAL SERVICE



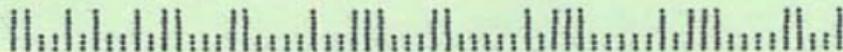
02 MAR 2011 PA

First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-16

- Sender: Please print your name, address, and ZIP+4 in this box •

National Aeronautics and  
Space Administration

Mail Code: RA-E11-024  
Lyndon B. Johnson Space Center  
White Sands Test Facility  
Post Office Box 20  
Las Cruces, NM 88004-0020



**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

State Emergency Response Commission  
 Attn: Mr. Ronald Breland  
 Department of Homeland Security and Emergency  
 Management  
 P.O. Box 27111  
 Santa Fe, NM 87502

2. Article Number

(Transfer from service label)

7009 3410 0001 5868 3432

PS Form 3811, February 2004

Domestic Return Receipt

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

**X** Agent AddresseeB. Received by (*Printed Name*)

C. Date of Delivery

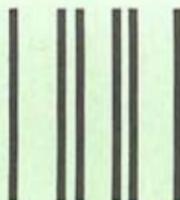
D. Is delivery address different from item 1?  YesIf YES, enter delivery address below:  No

3. Service Type

 Certified Mail Express Mail Registered Return Receipt for Merchandise Insured Mail C.O.D.4. Restricted Delivery? (*Extra Fee*) Yes

-02-M-1540

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First-Class Mail  
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National Aeronautics and  
Space Administration

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Las Cruces, NM 88004-0020

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- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Ms. Delores Estrada, Office Assistant  
 Emergency Planning Coordinator  
 Las Cruces Fire Department  
 P.O. Box 20000  
 Las Cruces, NM 88001

2. Article Number

*(Transfer from service label)***COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X

 Agent AddresseeB. Received by (*Printed Name*)

F. Corella

C. Date of Delivery

3/1/11

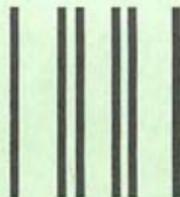
D. Is delivery address different from item 1?  YesIf YES, enter delivery address below:  No

3. Service Type

 Certified Mail Express Mail Registered Return Receipt for Merchandise Insured Mail C.O.D.4. Restricted Delivery? (*Extra Fee*) Yes

7009 3410 0001 5868 3449

UNITED STATES POSTAL SERVICE



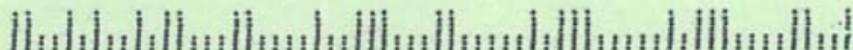
First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-10

- Sender: Please print your name, address, and ZIP+4 in this box •

National Aeronautics and  
Space Administration

Mail Code: RA E11-024

Lyndon B. Johnson Space Center  
White Sands Test Facility  
Post Office Box 20  
Las Cruces, NM 88004-0020



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1. Article Addressed to:

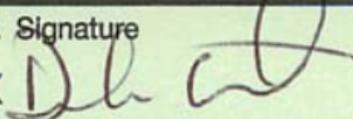
**David Almaguer**  
**Emergency Management Supervisor**  
**1170 North Solano, Suite O**  
**Las Cruces, NM 88001**

2. Article Number

*(Transfer from service label)***COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X

 Agent AddresseeB. Received by (*Printed Name*)

C. Date of Delivery

D. Is delivery address different from item 1?  YesIf YES, enter delivery address below:  No

3. Service Type

 Certified Mail Express Mail Registered Return Receipt for Merchandise Insured Mail C.O.D.4. Restricted Delivery? (*Extra Fee*) Yes

7009 3410 0001 5868 3456